(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 19.06.2013 Bulletin 2013/25

(43) Date of publication A2: 23.11.2011 Bulletin 2011/47

(21) Application number: 10189542.3

(22) Date of filing: 01.11.2010

(51) Int Cl.:

B01J 19/08 (2006.01) A62D 3/10 (2007.01) H05H 1/02 (2006.01) H05H 1/48 (2006.01)

B09B 3/00 (2006.01) C02F 11/00 (2006.01) H05H 1/46 (2006.01)

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR Designated Extension States:

BA ME

(30) Priority: 19.05.2010 CZ 201022733 U

(71) Applicant: Výzkumný ústav vodohospodárský T.G. Masaryka v.v.i. 16062 Praha 6 (CZ) (72) Inventors:

 Sezima, Tomas 70200, Ostrava (CZ)

 Sikora, Eugen 73937, Horni Bludovice (CZ)

(74) Representative: Novotny, Jaroslav Rimska 45120 00 Praha 2 (CZ)

(54) Device for physical waste treatment

(57)The device for physical waste treatment consists of the grounded Faraday cage placed in a transparent box with a transparent wall opening in which the carrier bridge (9) generators (1,2,3,4,5) of the force fields are placed, at the bottom of the box is the loosely placed stool of an electrically non-conductive material with very high ohmic resistances, which the plastic container (6) lies on for the insertion of the sample (7) for the exposure, while the bottom of the container is made of a thick layer of plastic with a very high ohmic resistance and which is loosely placed on the electrically conductive metal mesh (10) that is connected through an electric wire (12b) with an electrostatic field generator (5) of cold plasma. Above the tank is an electrically conductive metal mesh (11) of the upper plate of the electrostatic field of cold plasma, which is also associated with high voltage electric wire (12a) with the cold plasma generator (5) which is either embedded in the sample or freely suspended above the sample. Carrier bridge (9) is equipped with an electric drive with the possibility of adjusting the speed of movement in two stages.

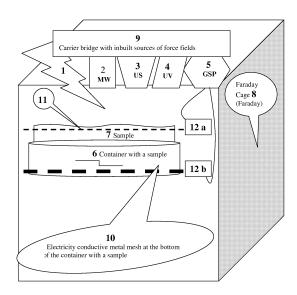


fig. 1



EUROPEAN SEARCH REPORT

Application Number EP 10 18 9542

	DOCUMENTS CONSIDE	RED TO BE R	ELEVANT		
Category	Citation of document with inc of relevant passaç		priate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	DE 44 32 228 A1 (STA 14 March 1996 (1996- * the whole document	-03-14)	[DE])	1	INV. B01J19/08 B09B3/00 A62D3/10
A	WO 94/24318 A1 (UNIV SACKINGER WILLIAM M 27 October 1994 (199 * page 5, last parag * figure 1 *	[US]) 94-10-27)	;	1	C02F11/00 H05H1/02 H05H1/46 H05H1/48
A	WO 01/37619 A1 (CT ETRANSP [CA]; BEAUREGE FRANCOEU) 25 May 200 * page 11, line 16 - * figure 2 *	GARD FRANCOIS 01 (2001-05-2	S [CA]; 25)	1	
A	WO 2009/147666 A1 (A KITAEV AARON [IL]; F [IL]) 10 December 20 * page 3, line 29 - * page 6, line 3 - 1 * page 14, line 27 - * figure 2 *	RUBANOVICH MI 009 (2009-12- page 4, line line 12 *	CHAEL -10) e 6 *	1	TECHNICAL FIELDS SEARCHED (IPC)
A	WO 2004/007066 A1 (U22 January 2004 (2004 * page 23, line 5 - * figure 10 *	04-01-22)	TA [US])	1	
A	US 2009/014027 A1 (S 15 January 2009 (200 * paragraph [0059] - * figures 4,5 *	9-01-15)		1	
	The present search report has be	· · · · · · · · · · · · · · · · · · ·	plaims		Supries
	The Hague	6 May		Car	examiner Hostagno, Eros
	ATEGORY OF CITED DOCUMENTS		T : theory or principle E : earlier patent docu	underlying the i	nvention
Y : parti docu	cularly relevant if taken alone cularly relevant if combined with anothe ment of the same category nological background		after the filing date D : document cited in L : document cited for	the application other reasons	
O: non	-written disclosure rmediate document		& : member of the sar document		

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 10 18 9542

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

06-05-2013

Patent document cited in search report			Publication date	Patent family member(s)		Publicatio date	
DE	4432228	A1	14-03-1996	NON	E		-
WO	9424318	A1	27-10-1994	AT AU CA DE EP JP US US WO	146227 6550994 2160773 69401129 0696327 H08512167 5356524 5409584 9424318	A A1 D1 A1 A A A	15-12-1 08-11-1 27-10-1 23-01-1 14-02-1 17-12-1 18-10-1 25-04-1 27-10-1
WO	0137619	A1	25-05-2001	AT AU CN DE DK EP ES JP JP MX WO	60030757 1232676 1232676	A A T2 T3 A1 T3 B2 A	15-10-2 30-05-2 08-01-2 13-09-2 29-01-2 21-08-2 01-05-2 20-07-2 07-05-2 30-06-2 25-05-2
WO	2009147666	A1	10-12-2009	EP US WO	2300375 2011068006 2009147666	A1	30-03-2 24-03-2 10-12-2
WO	2004007066	A1	22-01-2004	AU WO	2003234295 2004007066		02-02-2 22-01-2
US	2009014027	A1	15-01-2009	DE JP NL NL US	102007033701 2009021566 2001798 2001798 2009014027	A A1 C2	22-01-2 29-01-2 15-01-2 25-05-2 15-01-2